

September 30, 2015

Mr. Todd Gmitro Remediation & Reuse Branch USEPA - #5 77 West Jackson Blvd Chicago, IL 60604

RE: GE Aviation Building 700 Manhole & Cart Wash Area Clean-up FILE: 10361/60800

Dear Mr. Gmitro:

This letter provides a background and summary of clean-up activities for four abandoned manholes and an excavated cart wash area that were discovered in mid-December 2014, during renovation activities conducted in the northeastern corner of Building 700 at the GE Aviation facility in Evendale, OH. Clean-up was performed in accordance with a work plan submitted to USEPA, dated January 15, 2015, and included as Attachment A. The locations of the manholes and cart wash excavation area are shown on the attached Figure 1.

MANHOLE BACKGROUND

Upon discovery of the manholes, GE performed records reviews in an attempt to identify the former operations that may have been connected to these manholes. In addition, historical RCRA Corrective Action documents were reviewed to identify if the manholes were associated with a former solid waste management unit (SWMU) or area of concern (AOC). The record reviews did not identify the former operations that might have been connected to these manholes and also could not confirm if these manholes were associated with a former SWMU or AOC.

The manholes were opened and found to contain residual sludge material at the base of each manhole along with several pipe penetrations. The material was subsequently tested for waste characterization purposes by GE. Results indicated that this material contained toxicity characteristic leaching procedure (TCLP) concentrations of cadmium at or above 1 mg/L indicating that the residual sludge material was hazardous. Detectable concentrations of TCLP barium and lead were also reported, although not at levels considered hazardous. Based on these results, the residual sludge materials from the four manholes were designated for management and disposal as hazardous. Based on the records review being inconclusive regarding the potential connection to a SWMU or AOC, and the analytical results identifying hazardous levels of cadmium, GE informed USEPA of their discovery and the plan for clean-up in an email to Todd Gmitro, RCRA Program Manager, on January 15, 2015. The clean-up plan included:

- Sample and characterize for disposal any material present at the base of each manhole;
- Remove and properly dispose of the material until a solid base is encountered;
- Inspect the integrity of the base of each manhole and document if cracks are observed;
- If the manholes have a concrete base, no additional samples will be collected from this area;
- Cap the pipe penetrations at the wall of each manhole:







- Backfill with structural fill; and
- Seal the concrete floor areas to match existing.

MANHOLE CLEAN-UP ACTIVITIES

Clean Harbors, a waste management contractor, was tasked with developing a work plan to safely remove the waste, clean each manhole, plug the influent and effluent pipelines located within the manholes, and backfill the manholes to permanently seal before continuing with renovations in this area.

The cleaning of the four abandoned manholes occurred during February 19, 2015, through February 26, 2015. OBG was onsite to record activities, evaluate the integrity of the base of each manhole, track progress, and document the clean-up activities prior to permanently sealing the manholes. Clean Harbors utilized a vacuum truck, equipped with both aluminum and corrugated piping to remove the residual sludge from each manhole. The sludge was placed into a lined roll-off container that was properly labeled and designated for hazardous waste storage and disposal. A pressure washer was used to clean the sidewalls of the manholes with clean water and to flush the waste into the vacuum hose. Flooring around the manholes was covered with removable cardboard-based flooring that would be replaced in the event of a spill or leak. The cardboard-based flooring was placed by construction workers prior to any investigative or clean-up activities. Rips or tears in this flooring which occurred during work were promptly repaired to prevent contact of the waste materials with the surrounding concrete floor. Initial cleaning and vacuuming of the manholes was completed on February 19, 2015.

Once the flowable waste in each manhole had been vacuumed, a confined space permit was issued to allow a single worker to enter each manhole. Worker entry was necessary in two manholes because some residuals could not be removed with the vacuum hose. There were no indications of unacceptable atmosphere conditions in the manholes during the entries. This work was completed on February 20, 2015. Once the manholes were clean enough for visual observation of the base, OBG confirmed that the concrete floors and walls of the manholes were intact. Some surface chipping of the concrete had occurred in Manholes 1 and 4, as labeled on Figure 1, but none of the chipping had compromised the integrity of the concrete. Because the concrete was intact, sampling of underlying soil was not necessary.

Work on the manholes resumed on February 24, 2015, with plans to insert inflatable rubber Test-Ball™ plugs into the pipelines to prevent residual fluid from flowing into the manholes. Test Ball™ plugs were inserted into pipes and inflated to maximum size of the pipe to prevent fluid flow and seepage. The manholes were then vacuumed again and pressure washed to a clean environment. The equipment that came in contact with the waste residuals and seepage was properly decontaminated after use and personal protective equipment was placed into the lined roll-off container for disposal as a hazardous waste.

Manholes were then filled with flowable fill to the concrete floor surface.

CARTWASH BACKGROUND

Upon discovery of oily fluids surrounding an unknown trench drain below the cart wash area, GE performed a review of historical records in an attempt to identify the former operations that may have been connected to this cart wash. In addition, historical RCRA Corrective Action documents were reviewed to identify if the cart wash was associated with a former SWMU or AOC. The records review did not identify former operations that may have been connected to the cart wash. Historical records also did not indicate that the cart wash was associated with a former SWMU or AOC.

The oily fluid was sampled by GE and analyzed for TCLP metals, total petroleum hydrocarbons (TPH), and PCBs. Laboratory analytical results (Attachment B) indicated detectable concentrations of TPH-DRO and GRO. No PCBs were detected. Barium was the only metal detected; however, the concentrations were below USEPA



criteria for hazardous waste. As such, oily material removed from the cart wash area was designated for management and disposal as non-hazardous waste. GE also informed USEPA of their discovery and the plan for clean-up in an email to Todd Gmitro, RCRA Program Manager on January 15, 2015. The clean-up plan included:

- Sample and characterize for disposal any material present in the cart wash excavation;
- Remove and properly dispose of the material until the remaining material is devoid of free liquids;
- Collect a sample from the remaining soil at the excavated area and analyze for total petroleum hydrocarbons, diesel range organics (TPH, DRO) prior to backfilling;
- Cap the pipe penetrations at the sidewall of the cart wash excavation;
- Backfill with structural fill; and
- Seal the concrete floor areas to match existing.

CARTWASH CLEAN-UP ACTIVITIES

The work plan for the cart wash area included removing the concrete floor, removing potentially impacted fill material underlying the concrete floor, cleaning the catch basins on both ends of the trench drain, removing the trench drain, and plugging influent and effluent pipelines located within the catch basins. OBG was tasked with documenting the clean-up and removal efforts and collecting a sample from the underlying fill and/or native soil that was exposed once the visibly contaminated material had been removed.

The cleaning of the trench drain and cart wash area occurred between June 10 and 15, 2015. The Contractor first vacuumed and drummed accumulated water, then utilized a backhoe and skid steer to remove the visually impacted fill material and soils from the area. A pressure washer was used to clean the sidewalls of the catch basins once the soil and concrete material was removed.

The approximate dimensions of the cart wash collection unit was approximately 10 feet wide by 15 feet long and 3.5 feet deep. Three lined roll-off containers were filled with oily impacted soil and concrete and eight drums were filled with water removed during excavation. Proper disposal of these materials was completed following receipt of waste characterization data indicating the materials were non-hazardous.

Upon removal of the visibly stained materials, a soil sample was collected from the unstained soil at the base of the excavation, and analyzed for TPH – Gasoline-range Organics (GRO) and DRO in accordance with the work plan. Analytical results from this sample are attached as Attachment C. The results identified concentrations of TPH fractions remaining in the soil at the following concentrations: GRO - 12 mg/Kg; DRO - 1700 mg/Kg: and ORO (Oil-range Organics) - 1900 mg/Kg.

Prior to completing additional building renovations in this area, the excavation area was backfilled with 22 yards of flow-able fill on June 22, 2015.



CLOSING

Should you have any questions concerning this report, please feel free to contact me at (248) 505-8540.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Scott L. Cormier. P.E. Vice President

Attachments: Figure 1 - Manholes and Cart Wash Area

Attachment A - Clean-Up Work Plan

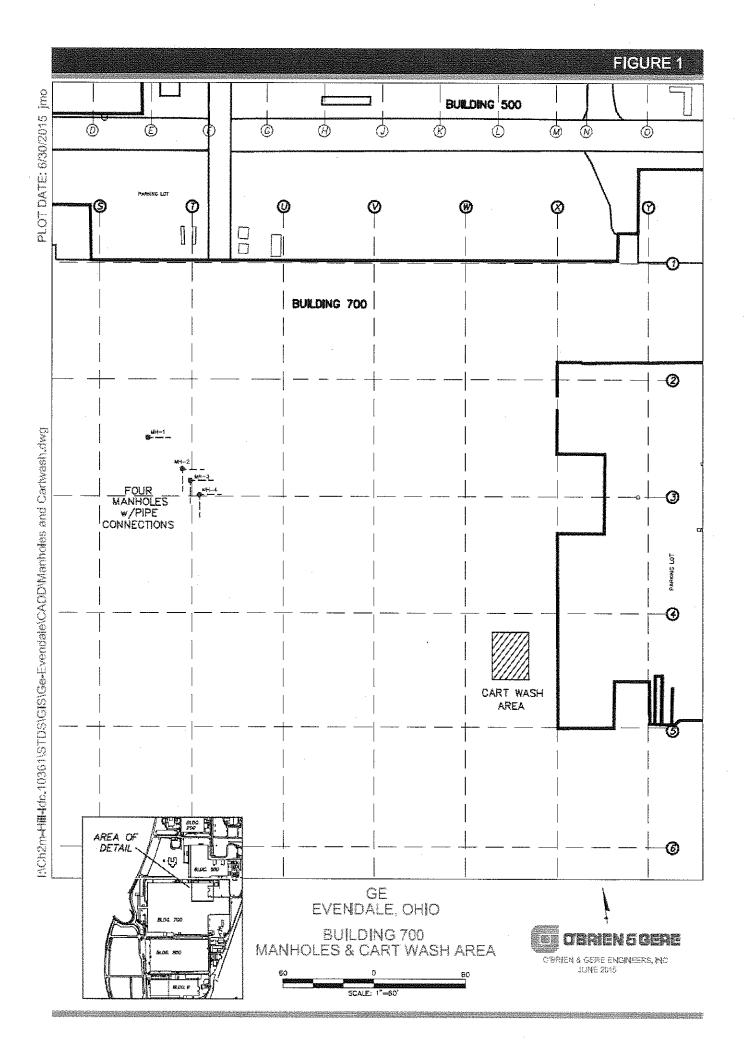
Attachment B - Laboratory Results -- Cart Wash Fluid Sample Attachment C - Laboratory Results -- Cart Wash Soil Sample

€C:

Ed Kolodziej, GE Joanne Reinhold, GE Rick Boone, OBG Terra Dalton, OBG

Attachments

Figure 1 Manholes and Cart Wash Area



Attachment A Clean-Up Work Plan

DBG THERE'S A WA

From: Scott Cormier

Sent: Thursday, January 15, 2015 12:43 PM

To: Gmitro, Todd

Cc: 'Kolodziej, Edward (GE, Corporate) (<u>Edward.Kolodziej@ge.com</u>)'; <u>Joanne.Reinhold@ge.com</u>; Rick Boone Subject: GE Aviation, Evendale, OH: Bldg 700 CMC Project – Manholes at Column T3 and Cart Wash Area at

Column W4

Todd, The GE site in Evendale, OH has an ongoing project to prepare space inside Building 700 to accommodate a Ceramic Matrix Composites (CMC) process. The CMC project will support research and development associated with the use of ceramic matrix composite materials in the design of state of the art jet engine parts. Specifically, there are four (4) manholes to be filled near column T3 and a cart wash basin and trench drain to be filled in at column W4. The locations of these two areas inside Building 700 are shown in the attached Figure 1.

The four manholes at column T3 may have been associated with one or more of the SWMUs that were included in the group of "Acid Neutralization Systems" identified in the 1989 RFA/VSI report (No. 108 and 110).

During removal of the cart wash unit on Saturday, January 3, 2015, GE encountered residual material under the concrete floor slab in Building 700 (column W4). The cart wash unit has a trench drain and collection basin that drains to an underground temporary holding tank. Fluids are then pumped into an outdoor above ground frac tank, which is regularly emptied and the liquids properly disposed. This cart wash unit might have been associated with SWMUs 59 (Ultrafiltration Concentrate Tank) and 60 (Tramp Oil Tank) which were located in the area of the frac tank.

The construction plans for these two areas include the following:

- Sample and characterize for disposal any material present at the base of each Manhole and in the cart
 wash excavation
- 2. Remove and properly dispose of the material until a solid base is encountered (manholes) or the remaining material is devoid of free liquids (cart wash area)
- 3. Inspect the integrity of the base of each manhole and document if cracks are observed
- 4. Collect a sample from the remaining soil at the cart wash area and analyze for total petroleum hydrocarbons, diesel range organics (TPH, DRO) prior to backfilling. If the manholes have a concrete base, no additional samples will be collected from this area.
- 5. Cap the pipe penetrations at the wall of each manhole and/or sidewall of the cart wash excavation
- 6. Backfill with structural fill
- 7. Seal the concrete floor areas to match existing

GE collected and analyzed for disposal purposes a sample of the material present at the base of each of the four manholes and of the material in the cart wash area. The laboratory results are attached to this email. In 2 of the manhole samples, TCLP cadmium was identified at or above 1 mg/l. Leachable levels of barium and lead were also identified in the samples, but at levels below TCLP criteria. Based on the results, GE plans to manage and dispose of the material being removed from the manholes as a hazardous waste. The analytical results for the material in the cart wash area identified levels of TPH, DRO along with leachable barium at a level below TCLP criteria. The material to be removed from the cart wash area will be disposed as a non-hazardous waste.

After construction is complete, GE will provide a summary letter report to USEPA documenting the activities completed along with additional data, if generated. As referenced in the approved CMS Work Plan, GE intends

to manage soils remaining under the buildings in accordance with the soil management plan (SMP). The SMP is under development and will also be provided to USEPA once complete.

If you have any questions, please contact either Ed Kolodziej @ 610.992.7981 or me at 248.505.8540.

Thanks,



VICE PRESIDENT

O'BRIEN & GERE

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Farmington Hills, MI 48335
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m 248-505-8540
scott.cormier@obg.com www.obg.com

Attachment B Laboratory Results - Cart Wash Fluid Sample



08-Jan-2015

John Iker Clean Harbors Environmental 4879 Spring Grove Ave. Cincinnati, OH 45232

Tel: (513) 563-1136 Fax: (513) 243-9167

Re: 700 Cart Wash; Project No.: 1500074310 Work Order: 1501080

Dear John,

ALS Environmental received 1 sample on 07-Jan-2015 01:47 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 14.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chris Gibson

Becksprically approved by: Chris Gibson

Chris Gibson

Project Manager

Date: 08-Jan-15

Client:

Clean Harbors Environmental

Project:

700 Cart Wash; Project No.: 1500074310

Work Order:

1501080

Work Order Sample Summary

<u>Lab Samp ID</u> <u>Client Sample ID</u>

1501080-01 700 Cart Wash

Matrix Liquid Tag Number

Collection Date
1/7/2015

Date Received 1/7/2015 13:47

Hold

Client:

Clean Harbors Environmental

Project:

700 Cart Wash: Project No.: 1500074310

Work Order:

1501080

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

. . .

Client:

Clean Harbors Environmental

Project: 700 Cart Wash; Project No.: 1500074310

Sample ID: 700 Cart Wash Collection Date: 1/7/2015

Work Order: 1501080

Lab ID: 1501080-01

Date: 08-Jan-15

Matrix: LIQUID

Апяјуѕеѕ	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS		***************************************	SW801	5B	Prep Date: 1/8/2015	Analyst: SAD
TPH C10-C20	280,000		67	mg/Kg	50	1/8/2015
TPH C20-C34	330,000		67	mg/Kg	50	1/8/2015
Surr. Nonane	75.7		40-80	%REC	1	1/8/2015
Surr. Pentacosane	. 0	S	70-130	%REC	1	1/8/2015
GASOLINE RANGE ORGANICS (C6-C			SW801			Analyst: TJH
TPH C6-C12	ND		10	mg/Kg	5	1/8/2015 12:52 AM
Surr. Cyclooctane	76.4		5 5-13 5	%REC	5	1/8/2015 12:52 AM
VOLATILES BY GC-PID 8020A			SW802	:0		Analyst: TJH
Berizene	ND		0.025	mg/Kg	5	1/8/2015 12:52 AM
Toluene	ND		0.025	mg/Kg	5	1/8/2015 12:52 AM
Ethylberizene	ND		0.025	mg/Kg	5	1/8/2015 12:52 AM
Xylenes, Total	0.22		0.025	mg/Kg	5	1/8/2015 12:52 AM
Surr: Tetrachloroethene	103		81-118	%REC	5	1/8/2015 12:52 AM
PCBS IN OIL			SW808	2	Prep Date: 1/8/2015	Analyst: SAD
Arodor 1016	ND		4.3	mg/Kg	1	1/8/2015
Arodor 1221	ND		8.6	mg/Kg	1	1/8/2015
Arodor 1232	ND		4.3	mg/Kg	1	1/8/2015
Arodor 1242	ND		4.3	mg/Kg	1	1/8/2015
Arodor 1248	ND		4.3	mg/Kg	1	1/8/2015
Arodor 1254	ND		8.6	mg/Kg	1	1/8/2015
Arodor 1260	ND		8.6	mg/Kg	1	1/8/2015
Surr: Decachlorobiphenyl	73.8		51.1-110	%REC	1	1/8/2015
Surr: Tetrachioro-m-xylene	79.2		16.8-130	%REC	1	1/8/2015
TCLP MERCURY BY CVAA			SW747	'0A	Prep Date: 1/8/2015	Analyst: SLW
Mercury	ND		0.50	μg/L	4	1/8/2015 02:34 PM
TCLP METALS BY ICP	·		SW601	0B	Prep Date: 1/8/2015	Analyst: VAW
Arsenic	ND		0.10	mg/L	1	1/8/2015 01:22 PM
Barium	0.43		0.10	mg/L	1	1/8/2015 01:22 PM
Cadmium	ND		0.10	mg/L	1	1/8/2015 01:22 PM
Chromium	ND		0.10	mg/L	1	1/8/2015 01:22 PM
Lead	ND		0.10	mg/L	1	1/8/2015 01:22 PM
Selenium	ND		0.10	mg/L	1	1/8/2015 01:22 PM
Silver	ND		0.10	mg/L	1	1/8/2015 01:22 PM

Note:

Date: 08-Jan-15

Client:

Clean Harbors Environmental

Project:

700 Cart Wash; Project No.: 1500074310

Work Order:

1501080

Analytical Comments

Method		Туре:	SampID	SeqNo	Analysis	Comments
Batch	<u> 26266</u>					
		Analysis	1501080-01B	984994	Diesel Range Organics	Surrogate could not be calculated due to high levels
						of hydrocarbons present within the sample.

Client:

Clean Harbors Environmental

Work Order:

1501080

Project: 700

700 Cart Wash; Project No.: 1500074310

QC BATCH REPORT

Date: 08-Jan-15

Batch ID: 26265	Instrument ID: GO	:3		Method	SW8082						
MBLK Sample II	D: MBLK-26265-2626	5				rts: mg/K	1	oisylen A	Date: 1/8/	2015	
Client ID.		Run	ID: GC3_1	50108A	AND AN OLD THE STREET	No. 98494		Prep Date: 1/8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DF: 1	
										RPD	
Analyte		Resu#	₽∩ı	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	Limit	Qual
				.0141 704		MILLO			701G D		State
Aroclor 1016		ND_	5.0								
Aroclor 1221		ND	10								
Vroctor 1232		ND_	5.0		 						
Aroclor 1242 Aroclor 1248		ND ND	5.0 5.0								
vocior 1254	***	ND _	5.0 5.0								
Arockor 1260		ND ND	5.0					٠			
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Sur Decachlorohinh			v	₩.	v	10.2	10-100	U	r		
	2	4.4	0 ID: GC3_16	5 50108A	Seq	88 ils: mg/K(No: 98494	3	Prep Date: 1/8/	Date: 1/8/	DF: 1	
Sun: Tetrachioro-m-x LCS Sample II Diient ID:	ylene D: LCS-26265-26265	4.4			Ur	ils mg/K	3	Analysis	Date: 1/8/	4 N. 11 E.	Qual
Surr: Tetrachioro-m-x LCS Sample II Client ID: Analyte	ylene D: LCS-26265-26265	4.4 Run	ID: GC3_16	50108A	Ur Seq SPK Ref	ils: mg/K(No: 98494	3 Control	Analysis Prep Date: 1/8, RPD Ref	Date: 1/8/ /2015 %RPD	DF. 1 RPD	Qual
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Sun: Tetrachioro-m-x LCS Sample II Client ID: Analyte Aroclor 1260 Sun: Decachloro-m-x Sun: Tetrachloro-m-x	ylene D: LCS-26265-26265 enyl ylene	4.4	PQL 5.0 0	50108A SPK Val 100 5 5	Ur Seq SPK Ref Value 0 0	%REC 84.8 82.2 92.4	Control Limit 70-130 51-110 16.8-130	Analysis Prep Date: 1/8/ RPD Ref Value 0 0 0 Analysis	Date: 1/8/ /2015 %RPD	DF: 1 RPD Limit	Qual
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Clean Harbors Environmental

Work Order:

1501080

Project:

700 Cart Wash; Project No.: 1500074310

Balch ID: 26266	Instrument ID: GC8		Method	I SW8015B						
MBLK Sample ID: Client ID:	MBLK-26256-26266 Run II): GC8_1	50108B		ts: mg/K ₍ lo: 98499		Analysis E Prep Date: 1/8/2	Anna Carlotte	2015 DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Diesel (total)	ND	1.5								
TPH C10-C20	ND	1.5								
TPH C20-C34	ND ND	1.5								
Surr. Nonane	255.2	0	500	0	51	40-80	0			
Surr: Pentacosane	448.4	0	500	0	89.7	70-130	0			
LCS Sample ID: Client ID: Analyte	LCS-26266-26266 Run II Result) GC8_18		i i a acar	ts. mg/K (io: 98499 %REC		Analysis D Prep Dale: 1/8/2 RPD Ref Value		1.0	Qua
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Client ID: Analyte	Run II Result	PQL	SPKVal	SeqN SPK Ref Value	o: 98499 %REC	6 Control Limit	Prep Dale: 1/8/2 RPD Ref Value	015	DF: 1 RPD	Qual
Client ID: Analyte Diesel (total)	Run II Result 3223	PQL 1.5	SPK Val	SeqN SPK Ref Value 0	64.5	Control Limit 60-120	Prep Dale: 1/8/2 RPD Ref Value	015	DF: 1 RPD	Qual
Client ID: Analyte Diesel (total) Surr. Nonane Surr. Pentacosane	Run II Result 3223 247.1	PQL 1.5 0	SPK Val 5000 500	Seqh SPK Ref Value 0 0 0 Uni	%REC 64.5 49.4 92.6	Control Limit 60-120 40-80 70-130	Prep Dale: 1/8/20 RPD Ref Value 0 0 0 Analysis C	%RPD %ate: 1/8/3	DF: 1 RPD Limit	Qual
Client ID: Analyte Diesel (total) Surr. Nonane Surr. Pentacosane	Result 3223 247.1 462.9 LCSD-26266-26266	PQL 1.5 0	SPK Val 5009 500 500	Seqh SPK Ref Value 0 0 0 Uni	%REC 64.5 49.4 92.6	Control Limit 60-120 40-80 70-130	Prep Dale: 1/8/20 RPD Ref Value 0 0 0	%RPD %ate: 1/8/3	DF: 1 RPD Limit	Qual
Client ID: Analyte Diesel (total) Surr Nonane Surr Pentacosane LCSD Sample ID:	Result 3223 247.1 462.9 LCSD-26266-26266	PQL 1.5 0 0	SPK Val 5009 500 500	Seqh SPK Ref Value 0 0 0 Uni	%REC 64.5 49.4 92.6	Control Limit 60-120 40-80 70-130	Prep Dale: 1/8/20 RPD Ref Value 0 0 0 Prep Dale: 1/8/20 RPD Ref	%RPD %ate: 1/8/3	DF: 1 RPD Limit	Qual
Client ID: Analyte Diesel (total) Surr: Nonane Surr: Pentacosane LCSD Sample ID: Client ID:	Result 3223 247.1 462.9 LCSD-26265-26266 Run II	PQL 1.5 0 0	SPK Val 5000 500 500 500	SeqN SPK Ref Value 0 0 0 Uni SeqN	%REC 64.5 49.4 92.6 ts: mg/Ks to: 98499	6 Control Limit 60-120 40-80 70-130	Prep Dale: 1/8/20 RPD Ref Value 0 0 0 Prep Dale: 1/8/20 RPD Ref	%RPD %RPD Date: 1/8/2 015	DE:1 RPD Limit 2015 DE:1 RPD	
Client ID: Analyte Diesel (total) Sur: Nonane Sur: Pentacosane LCSD Sample ID: Client ID:	Result 3223 247.1 462.9 LCSD-26266-26266 Run II	PQL 1.5 0 0 0: GC8_ft	SPK Val 5000 500 500 50108B	Seqh SPK Ref Value 0 0 Uni Seqh SPK Ref Value	%REC 64.5 49.4 92.6 is mg/Ks ic 98499	Control Limit 60-120 40-80 70-130 Control Limit	Prep Dale: 1/8/20 RPD Ref Value 0 0 0 Prep Dale: 1/8/20 RPD Ref Value	%RPD Oate: 1/8/3 015 %RPD	DE:1 RPD Limit 2015 DE:1 RPD Limit	

Clean Harbors Environmental

Work Order:

1501080

Project:

700 Cart Wash; Project No.: 1500074310

Baich ID: R115092 Instrument ID: GC6 Method: SW8021 MBLK Sample ID: BLK-R115092 Units: mg/Kg Analysis Date: 1/7/2015 05:02 PM Client ID: Run ID: GC6_150107A SeqNo: 984570 Prep Date: DF: 1 SPK Ref Control **RPD Ref RPD** Value Limit Value Limit POL SPK Val %REC %RPD Qual Analyte Result Benzene ND 0.0050 Toluene ND 0.0050 Ethylbenzene ND 0.0050 Xylenes, Total ND 0.0050 Surr: Tetrachloroethene 0 0.1 n tno 81-118 0 0.1004LCS Sample ID: LCS-R115092 Units: mg/Kg Analysis Date: 1/7/2015 06:17 PM Client ID: Run ID: GC6_150107A SeqNo: 984571 Prep Date: DF 1 SPK Ref RPD Ref RPD Control Value Limit Value Limit Analyte Result %REC %RPD Qual POL SPK Val Benzene 0.2684 0.0050 0.25 Đ 107 77-130 0 Toluene 0.2766 0.0050 0.25 0 111 73-126 0 Ethylbenzene 0.2674 0.0050 0.25 0 107 59-125 0 Xylenes, Total 0.5703 0.0050 0.5 0 114 67-129 0 Surr: Tetrachioroethene 0.1006O 0.1 0 101 81-118 0 MS Sample ID: 1501081-01A MS Units: mg/Kg Analysis Date: 1/7/2015 07:31 PM Client ID: SeqNo: 984573 Prep Date: Run ID: GC6_150107A DF: 1 SPK Ref RPD Control RPD Ref Value Limit Value Limit SPK Val %REC %RPD Qual Anatyte Result **PQL** Benzene 0.4053 0.0050 0.4 0.00087 101 51.8-146 0 Toluene 0.4002 0.0050 0.4 0.01674 95.9 35.6-162 Ω Ethylberizene 0.3814 0.0050 0.4 -0.00079 95.6 38.8-147 0 Xylenes, Total 0.7898 0.0050 0.8 0.004913 98.1 27.3-165 0 Surr: Tetrachloroethene 0.1001 0 0.1 100 81-118 0 MSD Sample ID: 1501081-01A MSD Units ma/Ka Analysis Date: 1/7/2015 07:56 PM SeqNo: 984574 Client ID: Run ID: GC6_150107A Prep Date: **DF. 1** SPK Ref Control RPD Ref **RPD** Limit Value Limit Value Analyte Result PQL SPK Val %REC %RPD Qual Benzene 0.3933 0.0050 0.00087 0.4053 0.4 98.1 51.8-146 3 20 Toluene 0.3806 0.0050 0.4 0.01674 91 35.6-162 0.4002 5.02 20 Ethylbenzene 0.3618 0.0050 -0.00079 0.3814 04 90.6 38 8-147 5.29 20 Xylenes, Total 0.7495 0.0050 0.8 0.004913 93.1 27.3-165 0.7898 5.23 20 Surr. Tetrachloroethene 0.1008 0.1 101 81-118 0.1001 0.727 1501080-01A The following samples were analyzed in this batch:

Clean Harbors Environmental

Work Order:

1501080

Project:

700 Cart Wash; Project No.: 1500074310

Batch ID: R115097 I	nstrument ID: GC6		Metho	d: SW8015A						
MBLK Sample ID: BL	. Delevis d'inidias le caracti à LPC	ID. GC6_18	50107B		ts: mg/K(o: 9845 9	10.000 (0.000 (0.000)	Analysis (Prep Date:	Date: 1/7/:	2015 05:0 DF: 1	2 PM
4nalyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
IPH C6-C12 Sur: Cyclooctane	ND 103.3	2.0 0	100	0	103	55-135	0			
CS Sample ID: LC Client ID:	i santytifia, kupljangški (lijera ješje) (sj.	ID: GC6_16	60107B	001 41 A. Osh Joseph	s: mg/K(o: 98459	2.11.11.11.11.11.11.11.11	Analysis (Prep Date:)ate: 1/7/2	2015 06:4 DF: 1	1 PM
\nalyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH C6-C12	21.11	2.0	20	0	106	69.5-120	0			
Surr. Cyclooctane	110.1	0	100	0	110	5 5-135	0			
MS Sample ID: 15(Client ID: Analyte	THE RESERVE OF THE PROPERTY OF	ID GC6_15 PQL	0107B SPK Val	A real Contractor of the	s: mg/Kç o: 98459 %REC	The second sections.	Analysis D Prep Dale: RPD Ref Value	Date: 1 <i>1712</i> %RPD	2015 08:20 DF: 1 RPD Limit	O PM Quel
PH C6-C12	16.76	2.0	20	0.13	83.2	22.5-117	0			
Surr. Cyclooctane	102.1	0	100	0	102	5 5-135	0			
MSD Sample ID: 150 Dient ID: unalyte	to a filocolou a di tibili di Hibibi	ID GC6_15 PQL	6107B SPK Val	SeqN SPK Ref	s mg/Kç o: 98459 %REC	Total Charles of the	Analysis I Prep Date: RPD Ref Value)ate: 1/7/2 %RPD	2015 08:4 DF: 1 RPD Limit	5 PM Qual
PH C6-C12	15.84	2.0	20	0.13	78.6	22.5-117	16.76	5.64	15.7	
Surr. Cyclooctane	102.8	0	100	0	103	<i>55-135</i>	102.1	0,703		
he following samples were	anakand in this batch:	15	01080-01A					1		

Clean Harbors Environmental

Work Order:

1501080

Project:

700 Cart Wash; Project No.: 1500074310

Mercury ND 0.50 Units: \(\mu_g/L\) Analysis Date: 1/8/2015 02:28 PM SeqNo: 984935 Prep Date: 1/8/2015 02:28 PM SeqNo: 984935 Prep Date: 1/8/2015 DF: 1	Baich ID: 26286	Instrument ID: H	IG1		Metho	f: SW7470	A					
Client ID Clie	Client ID:		Run ID			Se SPK Ref	eqNo: 98493	7 Control	Prep Dale: 1/8/; RPD Ref	2015	DF: 1 RPD	2 PM Qual
Client ID: Run ID: HG1_150108B SeqNo: 984935 Prep Date: 1/8/2015 02:28 PM Analyte Result PQL SPK.Val SPK.Val SPK.Ref Control RPD Ref Value %REC Limit Value %RPD Limit Que Mercury 5.14 0.50 5 0 103 80-120 0 LCSD Sample ID: LCSD-26286-26286 Client ID: Republic HG1_150108B SeqNo: 984936 Prep Date: 1/8/2015 02:30 PM Client ID: Result PQL SPK.Val SPK.Ref Value %REC Limit Value %RPD Limit Que Mercury 5.07 0.50 5 0 101 80-120 5.14 1.37 20 MS Sample ID: 1501080-018 MS Client ID: 700 Cart Wash Run ID: HG1_150108B SeqNo: 984939 Prep Date: 1/8/2015 02:36 PM Client ID: 700 Cart Wash Run ID: HG1_150108B SeqNo: 984939 Prep Date: 1/8/2016 DF: 1 Analyte Result PQL SPK.Val SPK.Ref Value %REC Limit RPD Ref Nep Date: 1/8/2015 02:36 PM Client ID: 700 Cart Wash Run ID: HG1_150108B SeqNo: 984939 Prep Date: 1/8/2016 DF: 1 Analyte Result PQL SPK.Val SPK.Ref Value %REC Limit RPD Ref Nep Date: 1/8/2015 02:38 PM Client ID: 700 Cart Wash Run ID: HG1_150108B SeqNo: 984940 Prep Date: 1/8/2015 DF: 1 Analyte Result PQL SPK.Val SPK.Val Seq. Control RPD Ref Nep Date: 1/8/2015 DF: 1 Analyte Result PQL SPK.Val Seq. Control RPD Ref RPD Limit Qual MSD Sample ID: 1501080-018 MSD Units: µg/L Analysis Date: 1/8/2015 DF: 1 Analyte Result PQL SPK.Val Seq. Control RPD Ref RPD Limit Qual Analyte Result PQL SPK.Val SPK.Val Seq. Control RPD Ref RPD Limit Qual Analyte Result PQL SPK.Val SPK.Val SPK.Ref Control RPD Ref RPD Limit Qual Analyte Result PQL SPK.Val SPK.Val SPK.Ref Control RPD Ref RPD Limit Qual Analyte Result PQL SPK.Val SPK.Val SPK.Ref Control RPD Ref RPD Limit Qual	Mercury		ND	0.50								
Client ID Sample ID LCSD-26286-26286 Run ID HG1_150108B SeqNo: 984936 Prep Date: 1/8/2015 02:30 PM	Cient ID:	D: LCS-26286-2628(RuniD			SPK Ref	pqNo: 98493	5 Control	Prep Date: 1/8// RPD Ref	2015	DF: 1 RPD	
Client ID: Control C	Mercury		5.14	0,50	5	. (103	80-120	0			
MS Sample ID: 1501080-01B MS Client ID: 700 Cart Wash Run ID: HG1_150108B SeqNo: 984939 Prep Date: 1/8/2015 02:36 PM SPK Ref Control RPD Ref RPD Analyte Result PQL SPK Val Mercury 2.52 0.50 5 0 50.4 75-125 0 S MSD Sample ID: 1501080-01B MSD Client ID: 700 Cart Wash Run ID: HG1_150108B SeqNo: 984940 Prep Date: 1/8/2015 02:38 PM Client ID: 700 Cart Wash Run ID: HG1_150108B SeqNo: 984940 Prep Date: 1/8/2015 02:38 PM Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD SPK Ref Control RPD Ref RPD SPK Ref Control RPD Ref RPD Analyte Result PQL SPK Val SPK Ref Control RPD Ref RPD Limit Qua	Client ID:	/. LC3U-20280-202	Run ID			SPK Ref	qNo: 98493(S Control	Prep Date: 1/8/2 RPD Ref	2015	DF: 1 RPD	
Mis Sample ID: 1501080-018 MS Units: µg/L Analysis Date: 1/8/2015 02:36 PM	Mercury		5.07	0.50	5	(101	80-120	5.14	1.37	20	
MSD Sample ID: 1501080-01B MSD Units: µg/L Analysis Date: 1/8/2015 02:38 PM Client ID: 700 Cart Wash Run ID: HG1_150108B SeqNo: 984940 Prep Date: 1/8/2015 DF: 1 SPK Ref Control RPD Ref RPD Analyte Result PQL SPK Val Value %REC Limit Value %RPD Limit Qua	Client ID: 700 Cart Was		Run ID	. HG1_1		Se SPK Ref	oqNo: 984939) Control	Prep Date: 1/8/3 RPD Ref	2015	DF: 1 RPD	6 PM Qual
Client ID: 700 Cart Wash Run ID: HG1_150108B SeqNo: 984940 Prep Date: 1/8/2015 DF: 1 SPK Ref Control RPD Ref RPD Analyte Result PQL SPK Val Value %REC Limit Value %RPD Limit Qua	Mercury		2.52	0.50	5	. (50.4	75-125	0			s
Mercury 2.29 0.50 5 0 45.8 75-125 2.52 9.56 20 S	Client ID: 700 Cart Was		Run ID	: HG1_1	50108B	Set SPK Ref	984940	Control	Prep Date: 1/8/7	2015	DF: 1 RPD	8 PM Qual
					_	_						

Clean Harbors Environmental

Work Order:

1501080

Project:

700 Cart Wash; Project No.: 1500074310

Batch ID: 26283	Instrument ID: ICP3		Method	SW6010B						
MBLK Sample Client ID:	ID: mblk-26283-26283	ın ID: (CP3_	50108A	da e ji brothoose ee groee.	ils: mg/L No: 9848 5	aggini eden e etila	Analysis Prep Date: 1/8/	Dale: 1/8/ 2015	2015 01:0 DF: 1)8 PM
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Arsenic	ND	0.10								
Barium .	ND ND	0.10								•
Cadmium	ND	0.10								
Chromium	ND	0.10			·			·		-
Lead	ND	0.10								
Selenium	ND	0.10	•							•
Silver	ND	0.10								
Analyte	Result	1 441	SPK Val	Value	%REC	Limit	promote the contract of the co	%RPD	H. H. F.	Qua
Amonic	5.31	0.40	5	n	·	80 13 0	n			·········
Arsenic Banium	5.31_ 4.943	0.10 0.10	5	0	106	80-120 80-120	0			
Barium	4.943	0.10	5	0	106 98.9	80-120	0			
Barium Cadmium	4.943 5.12	0.10 0.10	5 5	0	106 98.9 102	80-120 80-120	0			
Barium	4.943	0.10 0.10 0.10	5	0	106 98.9 102 102	80-120 80-120 80-120	0			
Barium Cadmium Chromium	4.943 5.12 5.105	0.10 0.10 0.10 0.10	5 5 5 5	0 0 0	106 98.9 102 102 101	80-120 80-120	0 0			
Barium Cadmium Chromium Lead	4.943 5.12 5.105 5.03	0.10 0.10 0.10	5 5 5	0 0 0 0	106 98.9 102 102	80-120 80-120 80-120 80-120	0 0 0			
Barium Cadmium Chromium Lead Selenium Silver	4.943 5.12 5.105 5.03 5.6 5.04	0.10 0.10 0.10 0.10 0.10 0.10	5 5 5 5 5 5	0 0 0 0 0	106 98.9 102 102 101 112 101	80-120 80-120 80-120 80-120 80-120 80-120	0 0 0 0 0	Date: 1/8/		
Barium Cadmium Chromium Lead Selenium Silver LCSD Sample Client ID:	4.943 5.12 5.105 5.03 5.6 5.04 ID: icsd-26283-26283	0.10 0.10 0.10 0.10 0.10 0.10	5 5 5 5 5 5	0 0 0 0 0 0 Un SeqN	106 98.9 102 102 101 112 101 its: mg/L	80-120 80-120 80-120 80-120 80-120 80-120	0 0 0 0 0 Analysis Prep Date: 1/8/	Date 1/8/ 2015	DF: 1 RPD	9 PM Qua
Barium Cadmium Chromium Lead Selenium Silver LCSD Sample Client ID: Analyte	4.943 5.12 5.105 5.03 5.6 5.04 ID: Icsd-26283-26283 Ru	0.10 0.10 0.10 0.10 0.10 0.10	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 7	0 0 0 0 0 0 Un SeqN SPK Ref Value	106 98.9 102 102 101 112 101 its: mg/L lo: 98485	80-120 80-120 80-120 80-120 80-120 9 Control Limit	0 0 0 0 0 Analysis Prep Date: 1/8// RPD Ref Value	Date: 1/8/ 2015 %RPD	DF: 1 RPD Limit	
Barium Cadmium Chromium Lead Selenium Silver LCSD Sample Client ID: Analyte Arsenic Barium	4.943 5.12 5.105 5.03 5.6 5.04 ID: Icsd-26283-26283 Ru Result 5.325	0.10 0.10 0.10 0.10 0.10 0.10 PQL 0.10	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 0 0 0 0 0 Un SeqN SPK Ref Value	106 98.9 102 102 101 112 101 its: mg/L No: 98485 %REC	80-120 80-120 80-120 80-120 80-120 80-120 9 Control Limit	0 0 0 0 0 Analysis Prep Date: 1/8// RPD Ref Value	Date 1/8/ 2015 %RPD 0.282	DF: 1 RPD Limit	
Barium Cadmium Chromium Lead Selenium Silver LCSD Sample Client ID: Analyte Arsenic Barium Cadmium	4.943 5.12 5.105 5.03 5.6 5.04 ID: lcsd-26283-26283 Ru Result 5.325 4.954	0.10 0.10 0.10 0.10 0.10 0.10 PQL 0.10	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 0 0 0 0 0 Un 'Seqh Value	106 98.9 102 102 101 112 101 its: mg/L lo: 98485 %REC 106 99.1	80-120 80-120 80-120 80-120 80-120 9 Control Limit 80-120 80-120	0 0 0 0 0 0 Analysis Prep Date: 1/8// RPD Ref Value 5.31 4.943	Date 1/8// 2015 %RPD 0.282 0.212	DF: 1 RPD Limit 20 20	
Barium Cadmium Chromium Lead Selenium Silver LCSD Sample Client ID:	4.943 5.12 5.105 5.03 5.6 5.04 ID: lcsd-26283-26283 Ru Result 5.325 4.954 5.145	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 0 0 0 0 0 Un SeqN SPK Ref Value	106 98.9 102 102 101 112 101 its: mg/L lo: 98485 %REC 106 99.1 103	80-120 80-120 80-120 80-120 80-120 80-120 9 Control Limit 80-120 80-120	0 0 0 0 0 0 Analysis Prep Date: 1/8// RPD Ref Value: 5.31 4.943 5.12	Date: 1/8/ 2015 %RPD 0.282 0.212 0.487	DE 1 RPD Limit 20 20 20	
Barium Cadmium Chromium Lead Selenium Silver LCSD Sample Client ID: Analyte Arsenic Barium Cadmium Chromium	4.943 5.12 5.105 5.03 5.6 5.04 ID: Icsd-26283-26283 Ru Result 5.325 4.954 5.145 5.16	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 0 0 0 0 0 0 Un SeqN SPK Ref Value	106 98.9 102 102 101 112 101 its: mg/L Vo: 98485 %REC 106 99.1 103	80-120 80-120 80-120 80-120 80-120 80-120 9 Coritrol Limit 80-120 80-120 80-120	0 0 0 0 0 0 Analysis Prep Date: 1/8// RPD Ref Value 5.31 4.943 5.12 5.105	Date: 1/8/ 2015 %RPD 0.282 0.212 0.487 1.07	DF 1 RPD Limit 20 20 20 20	

Clean Harbors Environmental

Work Order:

1501080

Project:

700 Cart Wash; Project No.: 1500074310

QC BATCH REPORT

Batch ID: 26283	Instrument ID: 10	:P3		Method	SW6010	3					
MS Sample ID: Client ID: 700 Cart Wash	1501080-01B MS	EARL COLORS		Market in the	Se	nils: mg/L 1No: 984861		Prep Date: 1/8/2	015	/2015 01: DF: 1	
Analyte		Result	PQL					Value			Qual
Arsenic		5.495	0.10	5	0.0321	109	75-125	0			
Barium		5.24	0.10	5	0.4327	96.1	75-125	Ö			-
Cadmium		5.25	0.10	5	-0.000135	105	75-125	0			
Chromium		5.105	0.10	5	0.0862	100	75-125	0	···		
L e ad		5.06	0.10	5	0.02268	101	75-125	0			
Selenium		5.47	0.10	5	0.00395	109	75-125	0			-
Silver		4.741	0.10	5	-0.00312	94.9	75-125	0			
MSD Sample ID:	1501080-01B MSE						- 1:15.j		5-4-, 410	IDOAE OA	00 DII
Client ID: 700 Cart Wash	The second of the second	e til ser sil si	ICP3_1	50108A	Sec	1965. Mg/L 1No: 984862	van Armini. Diskara	Analysis Prep Date: 1/8/2	Date, 176 1015	DF: 1	28 PW
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Quat
Arsenic		5.445	0.10	5	0.0321	108	75-125	5.495	0.914	20	
Barium		5.215	0.10	5	0.4327	95.6	75-125	5.24	0.478	20	
Cadmium		5.215	0.10	5	-0.000135	104	75-125	5.25	0.669	20	
Chromium		5.12	0.10	5	0.0862	101	75-125	5.105	0.293	20	
Lead		5.03	0.10	5	0.02268	100	75-125	5.06	0.595	20	
		E 40	0.40	5	O DODOE		75 405	F 47	5.040		
Selenium		5.42	0.10	Э	0.00395	108	75-125	5.47	0.918	20	

The following samples were analyzed in this batch:

1501080-01B

Date: 08-Jan-15

ALS Environmental

Client: Clean Harbors Environmental

QUALIFIERS, Project: 700 Cart Wash: Project No.: 1500074310 ACRONYMS, UNITS

WorkOrder: 1501080

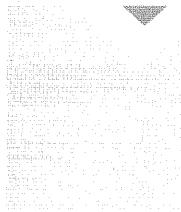
Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
sw	SW-846 Method
Units Reported	Description
μ g /L	

mg/Kg

mg/L

Sample Receipt Checklist

Client Name:	CLEANHARBORS-CINCINN/	<u>ATI</u>			Date/Time F	Received:	07-Jai	1-15 13	<u>:47</u>		
Work Order:	<u>1501080</u>				Received by	f.	SNH				
Checklist comp	leted by: Shilth Greenwald		07-Jan-15 Date	_	Reviewed by:	Chris Gib	SON				an-15 ate
Matrices: Carrier name:	Client									•	
Shipping contai	iner/cooler in good condition?		Yes	✓	No 🗌	Not Pres	ent []			
Custody seals i	intact on shipping container/cooler	?	Yes		No 🗌	Not Pres	ent E	/			
Custody seals i	intact on sample bottles?		Yes		No 🗌	Not Pres	ent b	7			
Chain of custor	ty present?		Yes	v	No 🗀						
Chain of custoo	ty signed when relinquished and re	ceived?	Yes	V	No 🗆						
Chain of custoo	ty agrees with sample labels?		Yes	V	No 🗌						
Samples in pro	per container/bottle?		Yes	✓	No 🗆						
Sample contair	ners intact?		Yes	Y	No 🗌	•					
Sufficient samp	nie volume for indicated test?	•	Yes	V	No 🗌						
All samples rec	eived within holding time?		Yes	V	No 🗌						
Container/Tem	p Blank temperature in compliance	9	Yes	✓	No 🗌						
Temperature(s)	/Thermometer(s):						· · · · ·				
Cooler(s)/Kit(s)	I.										
Water - VOA vi	als have zero headspace?		Yes		No 🗌	No VOA vials	submit	ed 🗹]		
Water - pH acc	eptable upon receipt?		Yes		No 🗌	N/A 🔽					
pH adjusted? pH adjusted by	:		Yes		No 🗌	N/A 🗸					
Login Notes:											
										m	
											
Client Contacte	ed:	Date Contacted:			Person	Contacted:					
Contacted By:		Regarding									
Comments:						 					
CorrectiveAction	n.								SRC	Pane 1	of 1



Attachment C

Laboratory Results

- Cart Wash Soil Sample

LINKS Review your project results through Have a Question? Visit us at:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

TestAmerica Job ID: 480-82224-1
Client Project/Site: Cart Wash Abatement

O'Brien & Gere Inc of North America 8805 Governor's Hill Dr. Ste. 164 Cincinnati, Ohio 45249

Attn: Chase Forman

Authorized for release by: 6/23/2015 7:06:54 PM

Rebecca Jones, Project Management Assistant I rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II (716)504-9838 john.schove@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Surrogate Summary	7
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Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
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Definitions/Glossary

Client: O'Brien & Gere Inc of North America

Project/Site: Cart Wash Abatement

TestAmerica Job ID: 480-82224-1

Qu	alific	ers
GC	Semi	VOA

Qualifier

Qualifier Description

X Surrogate i

Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
D.	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CNF	Contains no Free Liquid	
DER	Duplicate error ratio (normalized absolute difference)	

Dil Fac Dilution Factor

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision level concentration
MDA Minimum detectable activity
EDL Estimated Detection Limit
MDC Minimum detectable concentration
MDL Method Detection Limit

MDL Method Detection Limit
ML Minimum Level (Dioxin)
NC Not Calculated

ND Not detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit
QC Quality Control

RER Relative error ratio
RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

3

Case Narrative

Client: O'Brien & Gere Inc of North America

Project/Site: Cart Wash Abatement

TestAmerica Job ID: 480-82224-1

Job ID: 480-82224-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-82224-1

Comments

No additional comments.

Receipt

The sample was received on 6/13/2015 9:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Method(s) 8015D: Reported analyte concentrations in the following sample are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications: S-01-061215 (480-82224-1), (480-82224-A-1-D MS) and (480-82224-A-1-E MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8015D: The following sample was diluted due to an abundance of target analytes: S-01-061215 (480-82224-1). As such, surrogate recoveries are estimated and not representative, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: O'Brien & Gere Inc of North America Project/Site: Cart Wash Abatement

TestAmerica Job ID: 480-82224-1

Client Sample ID: S-01-061		Lab (Sa	mple ID:	480-82224-1			
Analyte	Result Qualifier	RL	MDL (Unit	Dii Fac	D	Method	Prep Type
GRO (C6-C10)	12	1.4	0.36	ng/Kg		吞	8015D	Total/NA
Diesel Range Organics (C10-C20)	1700	730	220 r	ng/Kg	40	3,5€	8015D	Total/NA
Oil Range Organics (C20,C34)	1900	730	220 c	malka		44	904ED	Totol/AlA



Client Sample Results

Client: O'Brien & Gere Inc of North America

Project/Site: Cart Wash Abatement

TestAmerica Job ID: 480-82224-1

Client Sample ID: S-01-061215

Date Collected: 06/12/15 14:00

Lab Sample ID: 480-82224-1

Matrix: Solid

Percent Solids: 90.9

Method: 8015D - Gasoline Rar			RL RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier					*		DIFFE
GRO (C6-C10)	12		1.4	0.36	mg/Kg	ф·	06/18/15 08:42	06/18/15 12:32	3
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	71		46 - 156				06/1B/15 08:42	06/18/15 12:32	1
Method: 8015D - Diesel Range	Organics (DRO\ (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C20)	1700		730	220	mg/Kg		06/17/15 14:33	06/19/15 14:41	40
Oil Range Organics (C20-C34)	1900		730	220	mg/Kg	Ş	06/17/15 14:33	06/19/15 14:41	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	265	X	48 - 125				06/17/15 14:33	06/19/15 14:41	40
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
								06/13/15 16:02	

Surrogate Summary

Client: O'Brien & Gere Inc of North America

Project/Site: Cart Wash Abatement

TestAmerica Job ID: 480-82224-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		TFT2	
Lab Sample ID	Client Sample ID	(46-156)	
480-82224-1	S-01-061215	71	
480-82224-1 MS	S-01-061215	76	
480-82224-1 MSD	S-01-061215	81	
LCS 480-248754/2-A	Lab Control Sample	77	
MB 480-248754/1-A	Method Blank	78	
Surrogate Legend			

Method: 8015D - Diesel Range Organics (DRO) (GC)

Prep Type: Total/NA Matrix: Solid

			Percent Surrogate Recovery (Acceptance Limits)
		ОТРН	
Lab Sample ID	Client Sample ID	(48-125)	
480-82224-1	S-01-061215	265 X	
LCS 480-248612/2-A	Lab Control Sample	84	
LCSD 480-248612/3-A	Lab Control Sample Dup	84	
MB 480-248612/1-A	Method Blank	69	
Surrogate Legend			·

QC Sample Results

Client: O'Brien & Gere Inc of North America

Project/Site: Cart Wash Abatement

TestAmerica Job ID: 480-82224-1

Method: 8015D -	Gasoline Range	Organics	(GRO) (GC)

Lab Sample ID: MB 480-248 Matrix: Solid Analysis Batch: 248740		MS					1	ole ID: Method Prep Type: To Prep Batch:	otal/NA
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	NO		1.2	0.33	mg/Kg		05/18/15 08:42	06/18/15 10:52	7
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	78		46 - 156				06/18/15 08:42	06/18/15 10:52	1

Lab Sample ID: LCS 480- Matrix: Solid Analysis Batch: 248740	248754/ 2-A		Spike	LCS	LCS	Clier	nt Sai	mple ID	: Lab Control Sample Prep Type: Total/NA Prep Batch: 248754 %Rec.
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
GRO (C6-C10)			9.71	9.29		mg/Kg		96	64 - 129
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
a,a,a-Trifluorotoluene	77		46 - 156			•			

Lab Sample ID: 480-82224 Matrix: Solid Analysis Batch: 248740		Sample	Spik a	MS	MS		С	lient Sa	Prep Typ	6-01-061215 e: Total/NA tch: 248754
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
GRO (C6-C10)	12		10.6	22.0		mg/Kg	卒	99	41.142	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
a,a,a-Trifluorotoluene	76		46 - 156							

Lab Sample ID: 480-8222 Matrix: Solid Analysis Batch: 248740							C	lient Sa	mple ID: Prep Ty Prep Ba	pe: Tot	al/NA 18754
	Sample	Sample	Spik e	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	ם	%Rec	Limits	RPD	Limit
GRO (C6-C10)	12		10.6	22.0		mg/Kg	<u>₹</u>	99	41 - 142	0	32
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
a,a,a-Triffuorotaluene	81		46 - 156		,						

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 480-24861 Matrix: Solid Analysis Batch: 248797	Matrix: Solid Analysis Batch: 248797							ile iu: Method Prep Type: To Prep Batch: I	otal/NA
	MB	MB						-	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C20)	ND		17	5.0	mg/Kg		06/17/15 14:33	06/18/15 18:18	
Oil Range Organics (C20-C34)	ND		17	5.0	mg/Kg		06/17/15 14:33	06/18/15 18:18	1

TestAmerica Buffalo

QC Sample Results

Client: O'Brien & Gere Inc of North America

Project/Site: Cart Wash Abatement

TestAmerica Job ID: 480-82224-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 480-248612/1-A

Matrix: Solid

Analysis Batch: 248797

MB MB

Surrogate o-Terphenyl %Recovery Qualifier

Limits 48_125 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248612

Prepared Analyzed Dil Fac 06/17/15 14:33 06/18/15 18:18

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 248612

Lab Sample ID: LCS 480-248612/2-A

Matrix: Solid

Analysis Batch: 248797

LCS LCS

Surrogate o-Terphenyl

%Recovery Qualifier

Limits 48.125

Lab Sample ID: LCSD 480-248612/3-A

Matrix: Solid

Analysis Batch: 248797

LCSD LCSD

Surrogate o-Terphenyl %Recovery Qualifier 84

Limits 48_125 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 248612

QC Association Summary

Client: O'Brien & Gere Inc of North America

Project/Site: Cart Wash Abatement

TestAmerica Job ID: 480-82224-1

GC	VOA

L	ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
4	80-82224-1	S-D1-061215	Total/NA	Solid	8015D	248754
4	80-82224-1 MS	S-01-061215	Total/NA	Solid	8015D	248754
4	80-82224-1 MSD	S-01-061215	Total/NA	Solid	8015D	248754
L	CS 480-248754/2-A	Lab Control Sample	Total/NA	Solid	8015D	248754
M	B 480-248754/1-A	Method Blank	Total/NA	Solid	8015D	248754

Prep Batch: 248754

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
7	480-82224-1	S-01-061215	Total/NA	Solid	5035	
	480-82224-1 MS	S-01-061215	Total/NA	Solid	5035	
	480-82224-1 MSD	S-01-061215	Total/NA	Solid	5035	
-	LCS 480-248754/2-A	Lab Control Sample	Total/NA	Solid	5035	
-	MB 480-248754/1-A	Method Blank	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 248612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82224-1	S-01-061215	Total/NA	Solid	3550C	
LCS 480-248612/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 480-248612/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 480-248612/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 248797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-248612/2-A	Lab Control Sample	Total/NA	Solid	8015D	248612
LCSD 480-248612/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	248612
MB 480-248612/1-A	Method Blank	Total/NA .	Solid	8015D	248612

Analysis Batch: 249047

	units					
	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
-	480-82224-1	S-01-061215	Total/NA	Solid	8015D	248612

General Chemistry

Analysis Batch: 247931

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
-	480-82224-1	S-01-061215	Total/NA	Solid	Moisture	

Lab Chronicle

Client: O'Brien & Gere Inc of North America

Project/Site: Cart Wash Abatement

TestAmerica Job ID: 480-82224-1

Lab Sample ID: 480-82224-1

Matrix: Solid

Percent Solids: 90.9

Client	Sample	ID:	S-0	1-061215	
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Date Collected: 06/12/15 14:00 Date Received: 06/13/15 09:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			248754	06/18/15 08:42	MRB	TAL BUF
Total/NA	Analysis	8015D		1	248740	06/18/15 12:32	MRB	TAL BUF
Total/NA	Prep	3550C			248612	06/17/15 14:33	CPH	TAL BUF
Total/NA	Analysis	8015D		40	249047	06/19/15 14:41	JMO	TAL BUF
Total/NA	Analysis	Moisture		dona	247931	06/13/15 16:02	MJH	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Buffalo

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6/23/2015

Certification Summary

Client: O'Brien & Gere Inc of North America

Project/Site: Cart Wash Abatement

TestAmerica Job ID: 480-82224-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-15 *
California	State Program	9	1169CA	09-30-15
Connecticut	State Program	1	PH-0568	09-30-16
Florida	NELAP	4	E87672	06-30-15
Georgia	State Program	4	N/A	03-31-16
Georgia	State Program	4	956	03-31-16
Illinois	NELAP	5	200003	09-30-15
lowa	State Program	7	374	03-01-17
Kansas	NELAP	7	E-10187	07-31-15 *
Kentucky (DW)	State Program	4	90029	12-31-15
Kentucky (UST)	State Program	4	30	03-31-16
Kentucky (WW)	State Program	4	90029	12-31-15
Louisiana	NELAP	6	02031	06-30-15 *
Maine	State Program	1	NY00044	12-04-16
Maryland	State Program	. 3	294	03-31-16
Massachusetts	State Program	1	M-NY044	06-30-15
Michigan	State Program	5	9937	03-31-16
Vinnesota	NELAP	5	036-999-337	12-31-15
New Hampshire	NELAP	1	2337	11-17-15
łew Jersey	NELAP	2	NY455	06-30-15
New York	NELAP	2	10026	03-31-16
North Dakota	State Program	8	R-176	03-31-16
Oklahoma	State Program	6	9421	08-31-15 *
Oregon	NELAP	10	NY200003	06-09-16
Pen nsylvania	NELAP	3	68-00281	67-31-15 *
Rhode Island	State Program	1	LAO00328	12-30-15
Tennesse o	State Program	4	TN02970	03-31-16
Texas	NELAP	6	T104704412-11-2	07-31-15*
JSDA	Federal		P330-11-00386	11-26-17
√irginia	NELAP	3	460185	09-14-15 *
Washington	State Program	10	C784	02-10-16
West Virginia DEP	State Program	3	252	09-30-15
Wisconsin	State Program	5	998310390	08-31-15 *

^{*} Certification renewal pending - certification considered valid.

Method Summary

Client: O'Brien & Gere Inc of North America Project/Site: Cart Wash Abatement TestAmerica Job ID: 480-82224-1

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL BUF
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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TestAmerica Buffalo

Sample Summary

Client: O'Brien & Gere Inc of North America Project/Site: Cart Wash Abatement

TestAmerica Job ID: 480-82224-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received			
480-82224-1	S-01-061215	Solid	06/12/15 14:00	06/13/15 09:00			

TestAmerica Cincinnati

11416 Reading Road

Chain of Custody Record

083711

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING TestAmerica Laboratories, Inc.

Cincinnati, BM 45241 Phone: 513.733.5780 Fax:	Reau	latory Pro	ogram: [Thw [1	‴] &C₽.	a Mir	Hher:				•					merica I	Laboral		Inc.
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Comments Section if the lab is to dispose of the sample,	1			************	-		genera				4	1			fortonly						
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Login Sample Receipt Checklist

Client: O'Brien & Gere Inc of North America

Job Number: 480-82224-1

List Source: TestAmerica Buffalo

Login Number: 82224

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OBG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	NIA	•